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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
08/936,510	09/24/1997	YONG BEOM KIM	8733.20056	9825	
30827 7:	590 11/18/2002				
MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006			EXAM	EXAMINER	
			CHOWDHURY, TARIFUR RASHID		
			ART UNIT	PAPER NUMBER	
			2871		

DATE MAILED: 11/18/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicant(s)				
	Application No.					
Office Action Summary	08/936,510	KIM, YONG BEOM				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication app	Tarifur R Chowdhury	2871				
Period for Reply	cars on the oorer sheet with the o	on opposition and the second				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 25 S	September 2002					
2a) This action is FINAL . 2b) ⊠ Thi	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	in the application					
4)⊠ Claim(s) <u>1,4,9,14,16,20 and 21</u> is/are pending 4a) Of the above claim(s) is/are withdray						
5) Claim(s) is/are allowed.	WITHOITI CONSIDERATION.					
6)⊠ Claim(s) <u>1,4,9,14,16,20 and 21</u> is/are rejected.						
7) Claim(s) is/are objected to.		,				
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers	4					
9) The specification is objected to by the Examiner	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic	c priority under 35 U.S.C. § 119(e) (to a provisional application).				
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domesti 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) S. Patent and Trademark Office	5) Notice of Informal I	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Status of Claims

1. Currently claims 1, 4, 9, 14, 16, 20 and 21 are pending.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 4, 14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshimizu et al., (Yoshimizu), USPAT 5,249,071 in view of Sugiyama et al., (Sugiyama), PN 5,757,455.
- 4. Yoshimizu shows in Fig. 10, a liquid crystal display device comprising:
 - first and second substrates (3, 2);
 - an electrode (5) over the first substrate (3);
 - a liquid crystal layer (8) disposed interjacent the first and second substrates;
 - two uniaxial optical compensation films (11, 12) of a same type over the second substrate (2); and
 - a first alignment layer (7) over the first substrate (3).

Yoshimizu does not explicitly disclose that the electrode is reflective. However, it is common and known in the art to use reflective electrodes to obtain a reflective display. Therefore, it would have been obvious to one of ordinary skill in the art at the

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time of the invention was made to modify the display of Yoshimizu such that using a reflective electrode over the first substrate so that a reflective display is obtained.

Accordingly, claim 1 would have been obvious.

As to claim 14, since the method of manufacturing the device is merely a list of forming each component and each component must be formed to make the device, the method of manufacturing would have been obvious in view of the device.

As to claims 4 and 16, Yoshimizu discloses that the two uniaxial optical compensation films are positive type (col. 11, lines 50-52).

- 5. Claims 9, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshimizu as applied to claims 1, 4, 14 and 16 above and in view of Sugiyama et al., (Sugiyama), PN 5,757,455.
- 6. Yoshimizu does not explicitly disclose the limitation such as the alignment layer having a plurality of alignment directions over the first substrate. However, Sugiyama discloses a liquid crystal display device having good visual angle characteristics includes a first alignment film with a plurality of first alignment direction, where at least two of the plurality of first alignment directions are either perpendicular or parallel to one another (figure 6G), formed on the first substrates and a second alignment film with an alignment direction perpendicular to the first alignment direction formed on the second substrate (col. 1, lines 63-64; col. 2, lines 5-13).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the display device of Yoshimizu such that employing a first alignment layer having a plurality of first alignment directions over the

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first substrate so that a display with good visual angle characteristics is obtained, as per the teachings of Sugiyama.

Sugiyama also discloses a method of manufacturing such device including a method of forming the alignment layer including rubbing or exposing number of times in accordance with the number of the alignment directions to polarize ultraviolet rays to form the alignment directions (column 4, lines 28-49, column 5, lines 26-28).

Accordingly, claims 9, 20 and 21 would have been obvious.

Response to Amendment

7. It is acknowledged and appreciated that applicant have canceled claims 8, 11, 17-19, 29-31 and 37-39 without prejudice.

Response to Arguments

8. Applicant's arguments with respect to claims 1 and 14 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R Chowdhury whose telephone number is (703) 308-4115. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William L Sikes can be reached on (703) 305-4842. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7005 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

1782.

T. Chowdhury Patent Examiner

Technology Center 2800

TRC November 14, 2002